MAY 1 8 2007

JW 37378

8 2007			U.S	. Patent and T	rademark (Office; L	PTO/SB/21 (09-04) through 07/31/2006. OMB 0651-0031 J.S. DEPARTMENT OF COMMERCE
Under the Pa	perwork Reduction Act of 1995	no person:	s are required to respond to a c Application Number	ollection of inf		nless it	displays a valid OMB control number.
TE	RANSMITTAL	Filing Date	November		-		
• • •	FORM		First Named Inventor		J. Tearney		
	1 OIN		Art Unit : • +	3737			
			Examiner Name	To be assi	igned		
(to be used for	all correspondence after initial	filing)	Attorney Docket Number		-		· · · · · · · · · · · · · · · · · · ·
Total Number of	f Pages in This Submission			187718/08	S/2 - 47538	17-245	
		ENCI	LOSURES (Check a	ill that apply	<i>)</i>		
Amendm Amendm A Extensio Express Informati Certified Document Reply to Incomple	ee Attached eent/Reply efter Final effidavits/declaration(s) en of Time Request Abandonment Request on Disclosure Statement Copy of Priority ete Application Reply to Missing Parts ender 37 CFR 1.52 or 1.53		Drawing(s) Licensing-related Papers Petition Petition to Convert to a Provisional Application Power of Attorney, Revocat Change of Correspondence Terminal Disclaimer Request for Refund CD, Number of CD(s) Landscape Table on C	Address		Appea of App Appea (Appea Proprid Status Other below)	orm with references and Return
	SIGNA	TURF C	OF APPLICANT, ATT	ORNEY. C	R AGE	NT	
Firm Name	Dorsey & Whitney, L.L.P.						
Signature							
Printed name	Gary Abelev, Esq.						
Date	May 16, 2007		Reg. No.	Reg. No	. 40,4	79	
sufficient postag	nat this correspondence is t e as first class mail in an en	eing facsi	CATE OF TRANSMIS	TO or depos	sited with t	the Un 1450, /	ited States Postal Service with Alexandria, VA 22313-1450 on
the date shown to Signature	Delow:	v					
Typed or printed	name Gary Abelev, Es	q.		<u> </u>		Date	May 16, 2007

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Effective on 12/08/04		Complete if Known				
OIPE		Applicati	ion No.	09/709,16	2	
FEE TRANSMI	TTAI QUEET	Filing Da	ate		November 10, 2000	
		First Inventor		Guillermo	Guillermo J. Tearney	
MAY 18 2007 (FY 20	ງບອງ	Group A	rt Unit	3737		
		Examine	er Name	To be ass	aned	
A control claims small entity sta	atus (see 37 C.F.R. 1.27)	Atty. Doc	ket Numb	per 187718/US	6/2 - 475387-245	
METHOD OF PAYM	ENT (Check One)		F	EE CALCULATIC	N (Continued)	
	rd Money Order			3. ADDITION	NAL FEES	
Deposit Account No.: 50-2054 Deposit Account Name: DORSEY of the above-identified dep	count, the Director is hereby	Large Entity Fee	Small Entity Fee	Fee Description		Fee paid
authorized to: (check all that apply) Charge any additional fees or ur C.F.R. 1.16 and 1.17		50	25	cover sheet	rovisional filing fee or	
Credit any overpayments	•	130	65	fee or oath	nonprovisional filing	
Other (please identify):		180	180	Submission of IDS		180
Extra Clair	m Fees	40	40		atent assignment per mber of properties)	
Current Claims Prior Extr	ra Fee Fee Paid x \$ = \$	120	60	Extension for reply	• • •	
Total =	x\$ =\$	450	225	Extension for reply	within second month	
Multiple Dependent Claims	otal (Extra Claims) \$	1,020	510	Extension for reply	within third month	
34510	tai (Extra Claims)	1,590	1,590 795 Extension for reply within fourth month			
Petition Fee Under 37 C	CFR 1.17(f), (g), & (h)	2,160	1,080	Extension for reply	within fifth month	
Enclosed is a Petition filed under 37 C		790				
Petition Fee under 37 CFR 1.17(f § 1.53(e) to accord a filing date.	Fee \$400	500	500 250 Notice of Appeal			
§ 1.57(a) to accord a filing date.	and a considered for	500	 500 250 Filing a brief in support of an appeal 1,000 500 Request for oral hearing 130 65 Terminal Disclaimer Fee 800 400 Design Issue Fee 			
§ 1.182 for decision on a question r § 1.183 to suspend the rules.		1,000				
§ 1.378(e) for reconsideration of decis payment of maintenance fe	ion on petition refusing delayed e in expired patent.	130				
§ 1.174(b) to accord a filing date to an of patent term.	application under §1.740 for extension	800				
Petition Fee under 37 CFR 1.17(g) Fee \$200	790	395	Request for Contir (RCE)	nued Examination	
§ 1.12 for access to an assignment of the second se		130		Request for volunt republication	ary publication or	
	inventors or person not the inventor.	500	250	Petition to Revive	– unavoidable	
§ 1.103(a) to suspend action in an a		1,500	750	Petition to Revive	- unintentional	
§ 1.295 for review of refusal to publ	ish a statutory invention registration.	200		Filing for patent te	rm adjustment	
§ 1.377 for review of decision refusion prior to expiration of a pater		400	Request for reinstatement of term reduced			
§ 1.956 for request for ext. of time	e in <u>ex parte</u> reexam, proceedings. e in <u>ex parte</u> reexam, proceedings.	1,120		Extension of term	of patent	:
§ 5.12 for expedited handling of fo § 5.15 for changing the scope of a § 1.5.25 for retroactive license.		OTHER (specify)				
Petition Fee under 37 CFR 1.17(h	•			Subto	tal (Additional Fees)	
§ 1.84 for accepting color drawi § 1.91 for entry of a model or ex § 1.102(d) to make an application s § 1.138(c) to expressly abandon an § 1.313 to withdraw an application § 1.314 to defer issuance of a pa	xhibit. special. n application to avoid publication. on from issue.			Total Amo	ount of Payment:	\$180
Submitted by:	DODGEV & WILLIAMS I I D		. D. 1 1			
CUSTOMER NUMBER 30873	DORSEY & WHITNEY LLP		Park A			
Name: Gary Abelev, Esq.			-	NY 10177 12-415-9371	Env.No.: 242.052	7201
Traille. Oally Abeliev, Lay.					Fax No.: 212-953-7	
Signature:		Reg. No.: Reg No. 40,479 Date: May 16, 2007				1





IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s)

Guillermo J. Tearney et al.

Serial No.

: 09/709,162

Filed

November 10, 2000

Entitled

SPECTRALLY ENCODED MINIATURE ENDOSCOPIC

IMAGING PROBE

Group Art Unit

3737

Examiner

- . - .

xamıner

Eleni M. Mantis Mercader

Confirmation No.

3219

INFORMATION DISCLOSURE STATEMENT PURSUANT TO 37 C.F.R. § 1.97(i)

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 I hereby certify that this document is being sent via First Class U. S. mail addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450 on this day of May 16, 2007.

(Signature)

Dear Sir:

Pursuant to 37 C.F.R. §§ 1.56 and 1.97(d), Applicants respectfully requests that the listed references on the enclosed form PTO-1449 be placed in the file of the above-referenced application. Copies the PCT, foreign and non-patent references are enclosed

This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that the listed documents are material or constitute "prior art." If the Examiner applies the documents as prior art against any claim in the application and applicant determines that the cited documents do not constitute "prior art" under United States law, applicants reserve the right to present to the Office the relevant facts and law regarding the appropriate status of the documents.

187718/US - 475387-00245 PATENT

If the Examiner applies the documents as prior art against any claim in the application and applicants determine that the cited documents do not constitute "prior art" under United States law, applicants reserve the right to present to the Office the relevant facts and law regarding the appropriate status of the documents.

The requisite fee of \$180.00 pursuant to these sections and 37 C.F.R. § 1.17(p) is enclosed herewith. The Commissioner is hereby further authorized to charge any deficiencies and credit any over payments for the submission of this Information Disclosure Statement to the Dorsey & Whitney's Deposit Account 50-2054.

Respectfully submitted,

DORSEY & WHITNEY, LLP

May 16, 2007

Gary Abelev USPTO Reg. No. 40,479 Attorney for Applicants (212) 415-9371

4837-3912-8833\1

Form :	PTO-14	49 U.S.	Depa	artment (of Comr	nerce
(REV.	2-82)	Patent	and 1	Γradema	rk Offic	e

MAY 1/8 2007

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use several sheets if necessary)

Atty. Docket No.
187718/US/2 – 475387-
00245

Serial No. 09/709,162

A	. 1 '	nt(s)
Δnr	าบกล	ntici
	moa	1111131

Guillermo J. Tearney et al.

Filing Date	;	
November	10,	2000

Group

To be assigned

U.S. PATENT DOCUMENTS

*Exam. Init.		Document No.							Date	Name	Class	Subclass	Filing Date if Appropriate
		6	2	4	9	3	4	9	June 19, 2001	Lauer******			
	2002	0	0	8	5	2	0	9	July 4, 2002	Mittleman et al.			
		7	0	0	6	2	3	1	February 28, 2006	Ostrovsky et al.			
		6	1	3	4	0	0	3	October 17, 2000	Tearney et al. *******			

FOREIGN PATENT DOCUMENT

	Б	Oocum	ent No).		Date	Coun	try	Class	SubClass	Transla Yes	ator No

OTHER DOCUMENTS (including Author, Title Date, Pertinent Pages, Etc.)

Copy of Office Action dated December 6, 2006 for U.S. Patent Application No. 10/997,789
Elliott, K. H. "The use of commercial CCD cameras as linear detectors in the physics undergraduate teaching laboratory", European Journal of Physics 19, 1998, pages 107-117 ********
Lauer, V. "New approach to optical diffraction tomography yielding a vector equation of diffraction tomography and a novel tomographic microscope", Journal of Microscopy Vol. 205, Issue 2, 2002, pages 165-176 *******
Yu, P. et al. "Imaging of tumor necroses using full-frame optical coherence imaging", Proceedings of SPIE Vol. 4956, 2003, pages 34-41*******

Examiner

Date Considered

^{*} Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Page 2 of 5

		rage 2 01 3
Form PTO-1449 U.S. Department of Commerce (REV. 2-82) Patent and Trademark Office INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Atty. Docket No. 187718/US/2 – 475387- 00245	Serial No. 09/709,162
(Use several sheets if necessary)	Applicant(s) Guillermo J. Tearney et al.	
	Filing Date November 10, 2000	Group To be assigned
		Topics in Quantum
Carcinoma in the United States." A		o. 10 pp. 2049-2053
	Therapy for Barrett's Oesophaugs" <u>Company</u> ogy Insight: Ablative Techniques for w.Nature.com/clinicalpractice/gasth	r Barrett's Esophagus –
Cancer with Ballon Cytology" Gast		-1797
Sepchler, Stuart Jon. (1997) "Barre Gastroenterology Vol 112, pages 2	tt's Esophagus: Should We Brush o 138-2152	ff this Balloning Problem?"
Froehly, J. et al. (2003) "Multiplexe Interferometry: A Proof of Principle	ed 3D Imaging Using Wavelength E e" <u>Optics Communications</u> Vol 222	
Kubba A.K. et al. (1999) "Role of p Digestive Disease and Sciences Vo	553 Assessment in Management of I I. 44, No 4. pages 659-667	Barrett's Esophagus"
Reid, Brian J. (2001) "p53 and Neo Journal of Gastroenterology Vol. 90	plastic Progression in Barrett's Eso 5, No 5, pages 1321-1323	phagus" The American
Sharma, P. et al.(2003) "Magnificate and Dysplasia in Barrett's Oesopha	tion Chromoendoscopy for the Dete gus" <u>Gut</u> Vol. 52, pages 24-27	ction of Intestinal Metaplasia
Kuipers E.J et al. (2005) "Diagnost Vol. 92, pages 203-209	ic and Therapeutic Endoscopy" <u>Jour</u>	rnal of Surgical Oncology
Georgakoudi, Irene et al. (2001) "F Evaluating Dysplasia in Patients wi 1629	luorescence, Reflectance, and Light th Barrett's Esophagus" Gastroente	

Examiner	Date Considered	

^{*} Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Page 3 of 5 Form PTO-1449 U.S. Department of Commerce Serial No. Atty. Docket No. (REV. 2-82) Patent and Trademark Office 187718/US/2 - 475387-09/709,162 00245 INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary) Applicant(s) Guillermo J. Tearney et al. Filing Date Group November 10, 2000 To be assigned Adrain, Alyn L. et al. (1997) "High-Resolution Endoluminal Sonography is a Sensitive Modality for the Identification of Barrett's Meaplasia" Gastrointestinal Endoscopy Vol. 46, No. 2, pages 147-151 Canto, Marcia Irene et al (1999) "Vital Staining and Barrett's Esophagus" Gastrointestinal Endoscopy Vol. 49, No. 3, part 2, pages 12-16 Evans, John A. et al. (2006) "Optical Coherence Tomography to Identify Intramucosal Carcinoma and High-Grade Dysplasia in Barrett's Esophagus" Clinical Gastroenterology and Hepatology Vol. 4, pages 38-3 Poneros, John M. et al. (2001) "Diagnosis of Specialized Intestinal Metaplasia by Optical Coherence Tomography" Gastroenterology Vol. 120, pages 7-12 Ho, W. Y. et al. (2005) "115 KHz Tuning Repetition Rate Ultrahigh-Speed Wavelength-Swept Semiconductor Laser" Optics Letters Col. 30, No. 23, pages 3159-3161 Brown, Stanley B. et al. (2004) "The Present and Future Role of Photodynamic Therapy in Cancer Treatment" The Lancet Oncology Vol. 5, pages 497-508 Boogert, Jolanda Van Den et al. (1999) "Endoscopic Ablation Therapy for Barrett's Esophagua with High-Grade Dysplasia: A Review" The American Journal of Gastroenterology Vol. 94, No. 5,

	ABZZ3	
Examiner		Date Considered
		·

Bipolar Electrode: A Phased Evaluation in the Porcine and in the Human Esophagus"

Sampliner, Richard E. et al. (1996) "Reversal of Barrett's Esophagus with Acid Suppression and Multipolar Electrocoagulation: Preliminary Results" <u>Gastrointestinal Endoscopy</u> Vol. 44, No. 5,

Sampliner, Richard E. (2004) "Endoscopic Ablative Therapy for Barrett's Esophagus: Current

Soetikno, Roy M. et al. (2003) "Endoscopic Mucosal resection" Gastrointestinal Endoscopy Vol.

Ganz, Robert A. et al. (2004) "Complete Ablation of Esophageal Epithelium with a Balloon-based

Pfefer, Jorje at al. (2006) "Performance of the Aer-O-Scope, A Pneumatic, Self Propelling, Self Navigating Colonoscope in Animal Experiments" Gastrointestinal Endoscopy Vol. 63, No. 5, pages

Status" Gastrointestinal Endoscopy Vol. 59, No. 1, pages 66-69

Gastrointestinal Endoscopy Vol. 60, No. 6, pages 1002-1010

pages 1153-1160

pages 532-535

A B 2 2 3

57, No. 4, pages 567-579

^{*} Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Page 4 of 5 Form PTO-1449 U.S. Department of Commerce Serial No. Atty. Docket No. (REV. 2-82) Patent and Trademark Office 187718/US/2 - 475387-09/709.162 00245 INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary) Applicant(s) Guillermo J. Tearney et al. Filing Date Group November 10, 2000 To be assigned Overholt, Bergein F, et al. (1999) "Photodynamic Therapy for Barrett's Esophagus: Follow-Up in 100 Patients" Gastrointestinal Endoscopy Vol. 49, No. 1, pages 1-7 Vogel, Alfred et al. (2003) "Mechanisms of Pulsed Laser Ablation of Biological Tissues" American Chemical Society Vol. 103, pages 577-644 McKenzie, A. L. (1990) "Physics of Thermal Processes in Laser-Tissue Interaction" Phys. Med. Biol Vol. 35, No. 9, pages 1175-1209 Anderson, R. Rox et al. (1983) "Selective Photothermolysis" Precise Microsurgery by Selective Absorption of Pulsed Radiation" Science Vol. 220, No 4596, pages 524-527 Jacques, Steven L. (1993) "Role of Tissue Optics and Pulse Duration on Tissue Effects During High-Power Laser Irradiation" Applied Optics Vol. 32, No. 13, pages 2447-2454 Nahen, Kester et al. (1999) "Investigations on Acosustic On-Line Monitoring of IR Laser Ablation of burned Skin" Lasers in Surgery and Medicine Vol. 25, pages 69-78 Jerath, Maya R. et al. (1993) "Calibrated Real-Time Control of Lesion Size Based on Reflectance Images" Applied Optics Vol. 32, No. 7, pages 1200-1209 Jerath, Maya R. et al (1992) "Dynamic Optical Property Changes: Implications for Reflectance Feedback Control of Photocoagulation" Journal of Photochemical, Photobiology. B: Biol Vol. 16,

	pages 113-126
	Deckelbaum, Lawrence I. (1994) "Coronary Laser Angioplasty" <u>Lasers in Surgery and Medicine</u> Vol. 14, pages 101-110
	Kim, B.M. et al. (1998) "Optical Feedback Signal for Ultrashort Laser Pulse Ablation of Tissue" <u>Applied Surface Science</u> Vol. 127-129, pages 857-862
	Brinkman, Ralf et al. (1996) "Analysis of Cavitation Dynamics During Pulsed Laser Tissue Ablation by Optical On-Line Monitoring" <u>IEEE Journal of Selected Topics in Quantum Electronics</u> Vol. 2, No. 4, pages 826-835
	Whelan, W.M. et al. (2005) "A novel Strategy for Monitoring Laser Thermal Therapy Based on Changes in Optothermal Properties of Heated Tissues" <u>International Journal of Thermophysics</u> Vol. 26., No 1, pages 233-241
	Thomsen, Sharon et al. (1990) "Microscopic Correlates of Macroscopic Optical Property Changes During Thermal Coagulation of Myocardium" <u>SPIE</u> Vol. 1202, pages 2-11
	Khan, Misban Huzaira et al. (2005) "Intradermally Focused Infrared Laser Pulses: Thermal Effects at Defined Tissue Depths" <u>Lasers in Surgery and Medicine</u> Vol. 36, pages 270-280
- · · · · · · · · · · · · · · · · · · ·	•

Date Considered

Examiner

^{*} Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Page 5 of 5

Form PTO-144	19 U.S. Department of Commerce
(REV. 2-82)	Patent and Trademark Office

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use several sheets if necessary)

Atty. Docket No. 187718/US/2 – 475387-00245

Serial No. 09/709,162

			/ \
Δr	mlı	cant	(e)
7 X I	γγι	Carro	(3)

Guillermo J. Tearney et al.

Filing Date
November 10, 2000

Group
To be assigned

Neumann, R.A. et al. (1991) "Enzyme Histochemical Analysis of Cell Viability After Argon Laser-Induced Coagulation Necrosis of the Skin" <u>Journal of the American Academy of Dermatology</u> Vol. 25, No. 6, pages 991-998
Nadkarni, Seemantini K. et al (2005) "Charaterization of Atherosclerotic Plaques by Laser Speckle Imaging" Circulation Vol. 112, pages 885-892
Zimnyakov, Dmitry A. et al (2002) "Speckle-Contrast Monitoring of Tissue Thermal Modification" <u>Applied Optics</u> Vol. 41, No. 28, pages 5989-5996
Morelli, J.G., et al (1986) "Tunable Dye Laser (577 nm) Treatment of Port Wine Stains" <u>Lasers in Surgery and Medicine</u> Vol. 6, pages 94-99
French, P.M.W. et al. (1993) "Continuous-wave Mode-Locked Cr ⁴⁺ : YAG Laser" Optics Letters Vol. 18, No. 1, pages 39-41
Sennaroglu, Alphan at al. (1995) "Efficient Continuous-Wave Chromium-Doped YAG Laser" <u>Journal of Optical Society of America</u> Vol. 12, No. 5, pages 930-937
Bouma, B et al. (1994) "Hybrid Mode Locking of a Flash-Lamp-Pumped Ti: Al ₂ O ₃ Laser" Optics Letters Vol. 19, No. 22, pages 1858-1860
Bouma, B et al. (1995) "High Resolution Optical Coherence Tomography Imaging Using a Mode-Locked Ti: Al ₂ O ₃ Laser Source" Optics Letters Vol. 20, No. 13, pages 1486-1488
Fernández, Cabrera Delia et al. "Automated detection of retinal layer structures on optical coherence tomography images", Optics Express Vol. 13, No. 25, October 4, 2005, pages 10200-10216
Ishikawa, Hiroshi et al. "Macular Segmentation with optical coherence tomography", Investigative Ophthalmology & Visual Science, Vol. 46, No. 6, June 2005, pages 2012-2017

4836-9759-5905\1

Examiner Date Considered

^{*} Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.